

AUTOMATED RECORD FIRE (ARF) RANGE NARRATIVE DESCRIPTION

Purpose: The information in this document is based on TC 25-8 Training Ranges dated 5 April 2004, FCC 17805. The Automated Record Fire range is used to train and familiarize soldiers on the skills necessary to identify, engage and defeat stationary infantry targets for day/night qualification requirements with the M16 & M4 rifles. The training conducted on this range could also be achieved on a modified record fire range. This range supports night fire operations and can also be used for automatic rifle practice.

Firing Line: The standard firing line is 320m long with sixteen 20m wide lanes. Each lane must have a fighting position and an adjacent position for the soldier to conduct prone firing. Firing positions should be on slightly elevated ground and designated with numbered markers. The standard fighting positions are shown in the Civil Details of this document.

Downrange Area:

Layout. Refer to the Layout Details in the Appendix of this document for a typical Automated Field Fire range layout. Target mechanism placements must conform as closely as possible to the established distances, but may vary by ± 1 meter in order to avoid undesirable locations such as depressions or drainage.

Targets. This range has 16 firing lanes; each lane is 20 meters wide by 300 meters long. A single lane has seven fully automated stationary infantry targets: 2 at 50m, 1 at 100m, 1 at 150m, 1 at 200m, 1 at 250m, and 1 at 300m. Each target is equipped with night muzzle flash simulators that can be used at the determination of the trainer.

Primary features include:

- 112 Stationary Infantry Targets
- 16 Fighting positions

Targetry: All targets are fully automated and the event specific target scenario is computer driven and scored from the range operations center. The range operating system is fully capable of providing immediate performance feedback to the using participants.

Associated Range Operations and Control facilities:

- Standard Small Arms ROCA Facilities except:
 - Range Operations Center (ROC)- Small (17123) replaced by ROC-Tower

Requirement Document:

FM 3-22.9 Rifle Marksmanship M16A1, M16A2/3, M16A4, M4 Carbine

Additional Information: Night firing can be accomplished from the night-fire line and baseline, firing at the 50m targets. Replace one of the 50m F-type silhouettes with an E-type silhouette. Low light illumination capability is required on both of the 50m target emplacements. Engage the F-type from the 25m night firing line and the E-type from the baseline. This range can be used for automatic rifle practice.